# KLIXON® | C Series (CA, CM, CDA, CDM)

## 2 to 40 Amp Commercial Thermal Circuit Breaker

## FEATURES

- 30VDC or 120VAC, 2 to 40 Amps
- Open and closed construction
- Automatic and manual reset options
- Ignition protected SAE J1171
- Weatherproof SAE J553
- UL Recognized E36869

## DESCRIPTION

The KLIXON® C series thermal breakers are designed to protect wiring and meet the harshest environmental requirements. The C series closed construction circuit breakers are weatherproof sealed for protection against moisture, dust, grease, fuel vapors and other harsh environments. The C series breakers are compact, lightweight and designed to interrupt short circuits or overloads, and combine trip-free protection with fast response time. Typical applications are protection of wire cable of accessory circuits, equipment and battery protection in construction and off-road equipment, marine, recreational vehicles (RV's), mining, agricultural equipment and electric (hybrid) vehicles.

## ORDERING INFORMATION

**X – X – X**

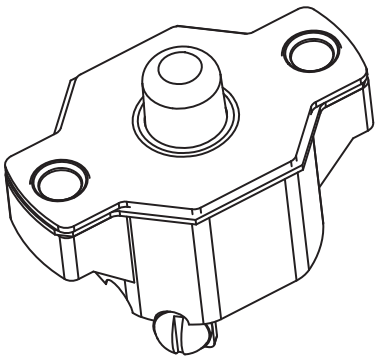
Configuration
CA = Auto, open unit
CM = Manual, open unit
CDA = Auto, sealed unit
CDM = Manual, sealed unit

Amp Rating
(2, 3, 4, 5, 6, 8, 10, 12.5, 15 17.5, 20, 25, 30, 35, 40)

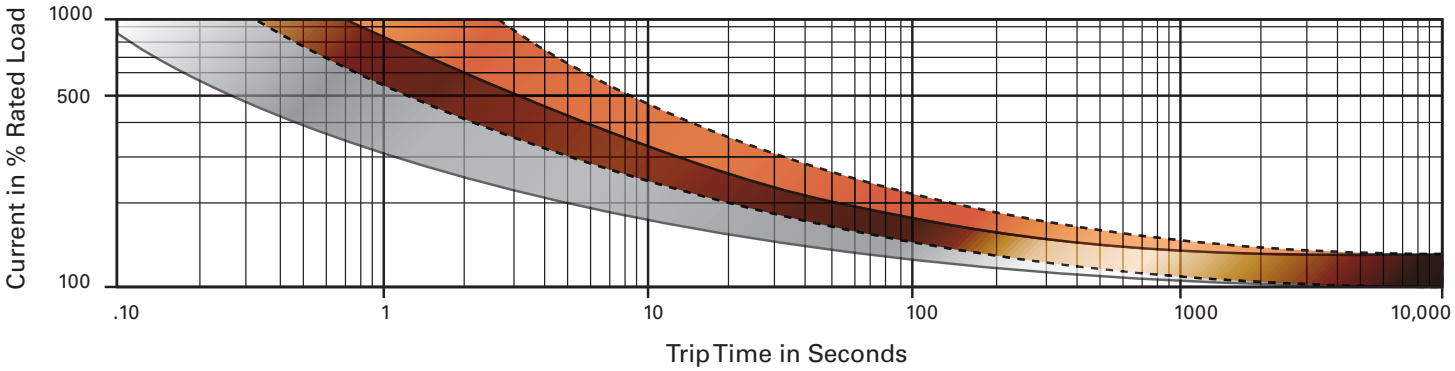
Mounting Nuts
= leave blank for none
I = optional mounting nuts

## PERFORMANCE CHARACTERISTICS

| | |
|---|---|
| Calibration : 200% rated current, 77°F (25°C) | 2 to 10 amps : 20 to 150 seconds<br>12.5 to 40 amps : 5 to 55 seconds |
| Ultimate Trip at 77°F (25°C) | Must hold 100%, Must trip 135% |
| Endurance | Per SAE J553 |
| Interrupt Current Capacity | Per SAE J553 and ABYC E-11 |
| Vibration | 10G MIL-STD-202 Method 204, Condition A |
| Salt Spray | MIL-STD-202 Method 101D (sealed only) |
| Dielectric Strength | MIL-STD-202 Method 301, 1500VAC min |
| Insulation Resistance | MIL-STD-202 Method 302, Condition B, 100 MΩ min |
| Weight (with mounting nuts) | CDM: 48 grams max CDA: 41 grams max<br>CM : 37 grams max CA : 32 grams max |



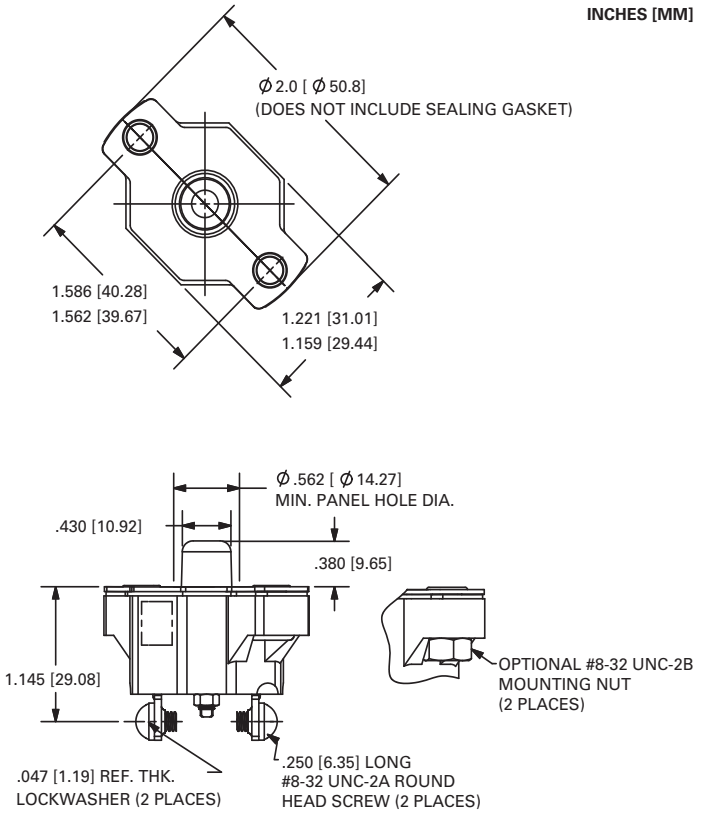
## TRIP CURVE - Approximate Time, Current Characteristics At 77°F (25°C)

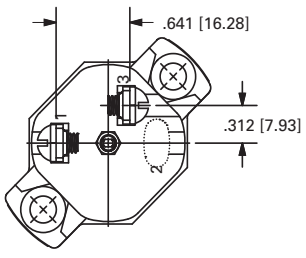



Dotted Lines: 10 amps or below
Solid Lines: Above 10 amps

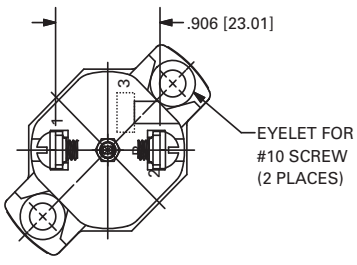
## DIMENSIONS

INCHES [MM]



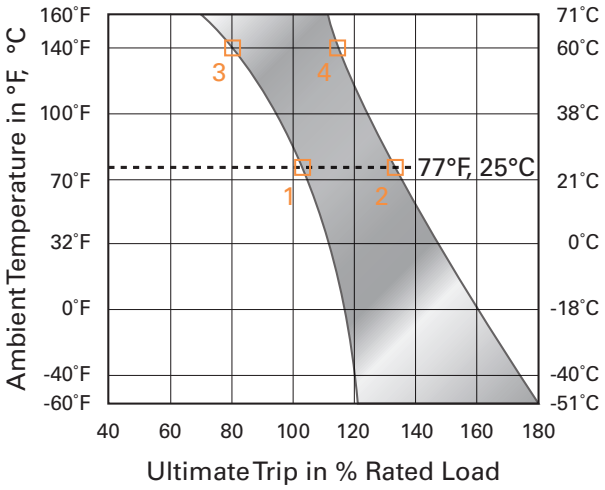




BOTTOM VIEW
2 AMP THRU 10 AMP




BOTTOM VIEW
12½ AMP THRU 40 AMP

## DERATING CURVE




Performance characteristics are based on room temperature (77°F, 25°C). Consult derating curve for ambient temperatures significantly higher or lower than standard room temperature.

*Example:* At 77°F (25°C) the device is calibrated to hold at 100% of rated current (1) and trip at 135% of rated current (2). At 140°F (60°C), the same device will hold at approximately 78% of rated current (3), and trip at approximately 115% of rated current (4).

BUSINESS CENTER

http://www.sensata.com/

**Sensata Technologies Inc.**
529 Pleasant Street
Attleboro, MA 02703, USA
Phone: +1 508-236-3800
Fax: +1 508-236-2349

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